

MEETING SUMMARY, FORMER NANSEMOND ORDNANCE DEPOT (FNOD) RESTORATION ADVISORY BOARD (RAB)

To: RAB Members, Interested Parties
From: Adriane James, U.S. Army Corps Government Co-Chair
Sandra Chaloux, CEC, Inc., RAB Facilitator
Re: August 4, 2005 RAB Meeting Summary

RAB Members Present: Bruce Johnson Kevin Mattonen Debbie Miller Marian “Bea” Rogers David Saunders Carl Serrette Rob Thomson Michael Isper for Ed Wallingford Bob Williams	Affiliation: Respass Beach Cedar Crest Hall VDEQ Community Co-Chair Bennett’s Creek Burbage Grant EPA VDOT Dominion
RAB Facilitator Present: Sandra Chaloux	CEC, Inc.
RAB Members Absent: John Bucklin Tim Fink Adriane James Kemp Littlefield Tom O’Grady Cherie Walton	GE TCC USACE, Govt. Co-Chair Lockheed Martin City of Suffolk Reactivities Management Corporation

Introduction and Welcome/Call to Order

(Sandra Chaloux – CEC, Inc.)

The meeting was called to order and the meeting attendees introduced themselves. No corrections were noted on the June RAB meeting summary.

RAB Business

Community Co Chair Comments (Bea Rogers)

Bea told the RAB members that there were copies of the new RAB contact list on the sign-in table that includes Bob Williams’ contact info. Bea also commented that the recent release to the media on the project was pretty good. Bob Williams said he saw the news articles about the draining of the Horseshoe Pond and thought the photos in the article were particularly good. George Mears thanked Bob Williams for his suggestions after the last RAB meeting regarding sampling parameters for arsenic. George said that the project team has added some of the parameters that Bob suggested to the work plan for the Arsenic investigation.

Landowner Updates

VDOT – Nothing new.

GE – Rick Aiken noted that the Corps has heard that GE may be very close to a sale of their property. He said the Corps will want to meet with the new landowner as soon as possible regarding the Corps’ ongoing munitions response work on the property.

TCC – Harry Wheeler said that TCC was going to be holding truck driving school in the evenings starting on August 22. He said that TCC was planning to install lights and fences. George Mears commented that this may impact the work the Corps will be doing in the Renovation Plant area. George said that he would coordinate with TCC on this.

Army Corps Update (George Mears –USACE)

George introduced Jeff Zoeckler, who is new to Cheryl Fromme's GeoEnvironmental Engineering group. He will be assisting with the FNOD project. Prior to working with the Corps, Jeff worked on Superfund issues for the Defense Supply Center in Richmond.

George reviewed the FNOD Project Budget comparing the project amounts for Fiscal Year 2005 with 2006. The Corps will be receiving approximately \$2.6 million for the FNOD project in 2006 (\$ 1 million less than was budgeted for 2005). George said that he did not believe that this would affect progress at FNOD. He said the Corps anticipates finishing the Military Munitions Response (MMRP) work in 2.5 years. The Corps has spent \$29 million to date on FNOD (\$12.8 million on MMRP and almost \$16.4 million on environmental studies -also referred to as a HTRW projects). Within Fiscal Year 2006 (beginning in October 05), the Corps expects to take all FNOD Areas of Concern to Site Investigation, to complete Records of Decision for the Track K and Pesticide area, and to complete Site Screening for the GE Pond. Much of the work has already been contracted.

Rick provided a summary of the Corps' current project priorities. They are listed below in order of priority.

- Munitions Response Areas
- Source Areas 1-6 (as designated by EPA on the National Priority Listing of FNOD)
- Group A AOCs (these are sites with suspect releases)
 - Nansemond River Beachfront
 - Arsenic Area Near GE
 - Renovation Plant Area
 - Wastewater Treatment Plant
 - Offshore & Lake Areas (TCC Lake & J Lake Areas)
- Group B AOCs (between TCC Lake & I-664). These are driven by the property owner's desire to move the property.
- Group C AOCs (west of TCC Lake-between the main campus and TCC Lake)
- Group D AOCs (East of I-644)

Bea asked if the results from the RI at the Horseshoe Pond are in. Rick said yes, the draft RI document should be complete by the beginning of next year. It can take a whole year from the Record of Decision phase until delisting. George pointed out that the Horseshoe Pond is a wetland and can't be developed. Bob Williams said that Dominion has no plans for the property. Rob has asked the Corps to package several sites together to go through the delisting process. This is easier for the multiple agencies that are involved in the process. Rob also said that the project team will proceed with delisting if a property is being delisted for further development upon request of the property owner.

Horseshoe Pond (Source Area 4) – The Corps drained the Horseshoe Pond recently to investigate some magnetic anomalies at the bottom of the pond. No munitions items were found. The Corps also collected some soil samples as part of the Remedial Investigation at the site. The Corps was trying to determine the presence or absence of dissolved arsenic in the vicinity of the GE building and the Horseshoe Pond. The draft report for the Horseshoe Pond area sampling was submitted to the regulators for review in June 2005. George told the RAB that the Horseshoe Pond does not appear to be the source of the Arsenic. George showed a site map illustrating the sampling locations and results

around the area. EPA's Maximum Contaminant Level (safety level) for Arsenic in groundwater is 5 ug/l. Arsenic was detected by the Corps during an Oct. 2004 sampling effort in 2 monitoring wells along a former railroad line on GE property fairly far north of the Horseshoe Pond at 8.8 ug/l and 4.8 ug/l. There is currently insufficient data to identify any contributing source areas. Some of the potential sources of the Arsenic being evaluated include:

- Naturally occurring due to geochemical environment
- Disposal activities in the area of HSP and/or GE facility
- Historical railroad operations at GE facility
- Historic pest control activities at HSP and/or GE facility

The Corps is developing a strategy to further evaluate arsenic impacts and to determine the source of it. Bea asked if the Corps was able to get into contact with the gentleman from the Isaac Walton League who worked at GE at that time. The Corps has made an initial contact with him. George said that he was going to set up an appointment with this gentleman. Bea said that this gentleman indicated that there was a washout area there at GE. George asked for the RAB's input about adding the Arsenic area as a new AOC. The RAB agreed. Harry Wheeler asked George if the Corps has reviewed the sampling data that Malcolm Pirnie collected for Dominion at wells up and down that area. George said that this will be part of the review for the investigation. Rick said that the Corps looked at the Malcolm Pirnie data when they were working on the Impregnite Kit area. None of that data jumped out at the team but Rick acknowledged that it would be a good idea to review that data again.

Arsenic Investigation Near GE (A-22)

The Corps is developing a work plan and government estimate for the work to be conducted at this new area of concern. George said that the Corps is working with GE who is in full agreement with what the issues are. He said that the Corps hoped to have a plan completed for the site within a few weeks to present to the regulators.

Marine Corps Power Generation (A-6)

Bea asked if PCBs were found in the concrete and the soil at the Marine Corps Power Generation area. George said yes. Bea asked what the Corps was doing with the concrete. George said that the Corps will remove it and if the levels are high enough it will have to be disposed of in a hazardous waste landfill. Bea asked if the PCBs would pose a hazard to anyone that may go out there without the Corps' knowledge. Rick said that it would only pose a hazard if someone was working or trying to live in the building. There are warning signs posted around the building.

Track K Dump (Tire Pile/Paint Can Area) & Pesticide Drum Area (Source Area 6) –The Corps has postponed a public meeting on the Proposed Plan for the Track K Dump (Tire Pile/Paint Can Area) until December to allow the regulators more time to review the draft Proposed Plan document. One of the alternatives being considered is no further action. George explained that the project team earlier that day had clarified the actual boundaries of the site. The site now includes the actual former debris area and adjacent ground scars from historical aerial photos.

Groundwater Report

George showed groundwater maps of the upper and lower aquifers at FNOD. The purpose of the groundwater model is to determine how the groundwater flows at FNOD. This will help with future investigations at the Source Areas and Areas of Concern to determine where contamination may have come from and where it's going. George reported that the groundwater is generally flowing toward the rivers. The Columbia Aquifer is the upper aquifer which has groundwater flow rates of between 20 to 200 feet per year. The Yorktown-Eastover Aquifer is the lower aquifer and has a flow rate of 50 to 300 feet per year. Both aquifers are separated by a confining clay layer. There are

seasonal differences in how the groundwater interacts with the lakes on site. In wetter periods of the year, the groundwater flows into the lakes. During drier seasons, the lakes discharge to groundwater. The Corps is further evaluating how the groundwater interacts with surface water using data from staff gauges that are placed around FNOD. The Corps will continue to refine the groundwater and conceptual site model with new data such as chemical analyses, water levels, and lithology (the gross physical description of rock and soil formations). George mentioned that they have collected groundwater samples at the James River Beachfront for 4 quarters and that all the wells have come up clean each time. The Corps has sampled between 65 and 85 monitoring wells at the site to gather information for the groundwater model. The last quarter of sampling required to calibrate the groundwater model will be conducted in August. Rick pointed out that the closer together the lines are on the groundwater map the faster the groundwater flow. He also pointed out that the groundwater in the TNT area is not moving very fast.

Kevin Mattonen asked George if the Corps had considered hyperspectral mapping of the site. He said it is a remarkable tool for anomaly detection, ground disturbance detection and chemical trait mapping. Kevin said the technology is appropriate for identifying layers of anomalies in the surface and near surface areas. Rob Thomson said that NASA has actually done this type of work for EPA. "With a flight, you may be able to see where the arsenic is elevated. It just depends how reflective the treatment is." George said he would look into it.

Munitions Response Update (*Rick Aiken- J.M. Waller & Associates*)

Horseshoe Pond

The Corps removed the 2 anomalies from the Horseshoe Pond. One was a six-foot pipe that was 1 inch in diameter and the other was a coil of wire and a pipe 1 inch by 3 feet long. Some small pieces of metal strapping material was also located near the 6-foot pipe, enhancing its magnetic signature. EPA has indicated that no additional sampling is required at this site. (The Corps has already sampled the berms, the sediment, and the surface water for all the parameters prior to draining the pond.) No elevated levels of contaminants were found. Both the Ecological Risk Assessment and Human Health Risk Assessment that were conducted at this site have indicated that no risk is posed by it. Rick said that the Horseshoe Pond is headed for a no further action Record of Decision.

Mechanical Sifter

Rick reported that the Corps is able to use a smaller safety distance around the mechanical sifter than originally planned. The change is due to the recognition that the munitions items found at FNOD are not sensitive since they have not been fired or armed and, as a result, munitions experts at Huntville have recomputed a shorter safety distance. What this means is that the Corps does not have to worry about the upcoming construction plans south of the Main Burning Ground impacting the Corps' munitions response efforts. The new safety distance has been reduced from about 1,700 feet to 300 feet around the sifter.

Nansemond River Beachfront (NRB)

Rick explained that erosion behind the retaining wall has unearthed a six-inch shrapnel round and some adapter fuses. There are also HTRW issues related to slag that has been removed. First the Corps will remove ordnance from 3 pits that were located south of the wall. The Corps will then dig three trenches perpendicular to the wall into virgin soil to characterize the site. The trenches will be four feet deep and about five feet wide. One trench will be dug where the six-inch shrapnel round was found, one will be dug where the fuses were found, and one will be dug in between. The Corps will remove and examine the fill to determine what it contains. The Corps will remove the debris and characterize the material in terms of ordnance and chemical issues. Rick said that the Corps is planning a surface clearance to Mean Low Water where possible and behind the

retaining wall. They are not going to move the rocks that are on the side of the wall. However, the Corps will pick up anything that is found there at low tide.

Land Use Controls

Rick reported that the city of Suffolk has basically agreed to everything the Corps requested in terms of land use control implementation coordination. The Corps just needs to clean their letter up to clarify that the city will request construction support from the Corps if needed in areas where the Corps has determined that munitions have been found during previous investigations for in areas where the Corps did not search for various reasons (under roadways, inaccessible, or covered by large piles of construction debris). Rick also said that GE has verbally agreed to place restrictions on their property. The Corps is working on a written agreement with GE. Rick said that now that this aspect of the Land Use control plan is completed, the Corps can complete a report for EPA on the Corps' time critical removal actions at FNOD. These were required by EPA to address munitions safety concerns. Rick said the Corps hopes to complete this report in 60 days.

Recent Munitions Findings

No Discarded Military Munitions (DMM) items were found at FNOD in May. However, the Corps did find five 20mm projectiles on GE property in the Main Burning Ground area in June. The Corps also removed 144 rounds of 50 mms (which are considered small arms).

Public Comments

None noted.

Agenda items for the next RAB meeting (October 6, 2005):

- AOC 10 & 11 Work Plans & Proposed Sampling Maps
- AOC 22 & 23 Update
- Track K Dump Area Proposed Plan
- Nansemond River Beachfront Update
- Mechanical Sifter Update

Action items:

- Get this RAB Meeting Presentation to RAB electronically -Sandra
 - Research Hyperspectral Analytical Option & applicability at FNOD – George/Rob
- Coordinate with TCC about Truck Driving School fencing, etc.-George
 - Follow-up with Isaac Walton League gentleman about prior GE site activities - George
- Review Malcolm Pirnie Data for Arsenic Investigation

Meeting Adjourned around 8:45 p.m.

Others Present: Rick Aiken Jeff Zoeckler George Mears Kim Tayloe Cliff Walden Harry Wheeler	Affiliation: J.M Waller & Associates USACE, Project Engineer USACE, Acting Project Manager Weston Solutions Inc. Zapata Engineering TechLaw Inc.
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